



# Guidelines for Applicants

## AMULET Awards

The core objective of AMULET is to significantly contribute to the reduction of CO2 emissions and improve resource efficiency in the EU thanks to the support given to SMEs for the development of innovative solutions for lightweight.

AMULET would like to celebrate and promote the key role of SMEs through a contest in which we will select the three best projects of AMULET challenge competition among the 15 projects funded.

This contest will provide winners with the AMULET Awards and associated financial prizes, that will be given during an Awards Ceremony at the AMULET Final Event, planned on 17<sup>th</sup> October 2024 during Kompozyt Expo in Krakow, Poland.

All the 15 funded AMULET solutions, applying or not to the awards, will also have access to:

- A dedicated pitch/presentation session during the AMULET final event
- The opportunity to showcase their prototype or demonstrator during the AMULET final event

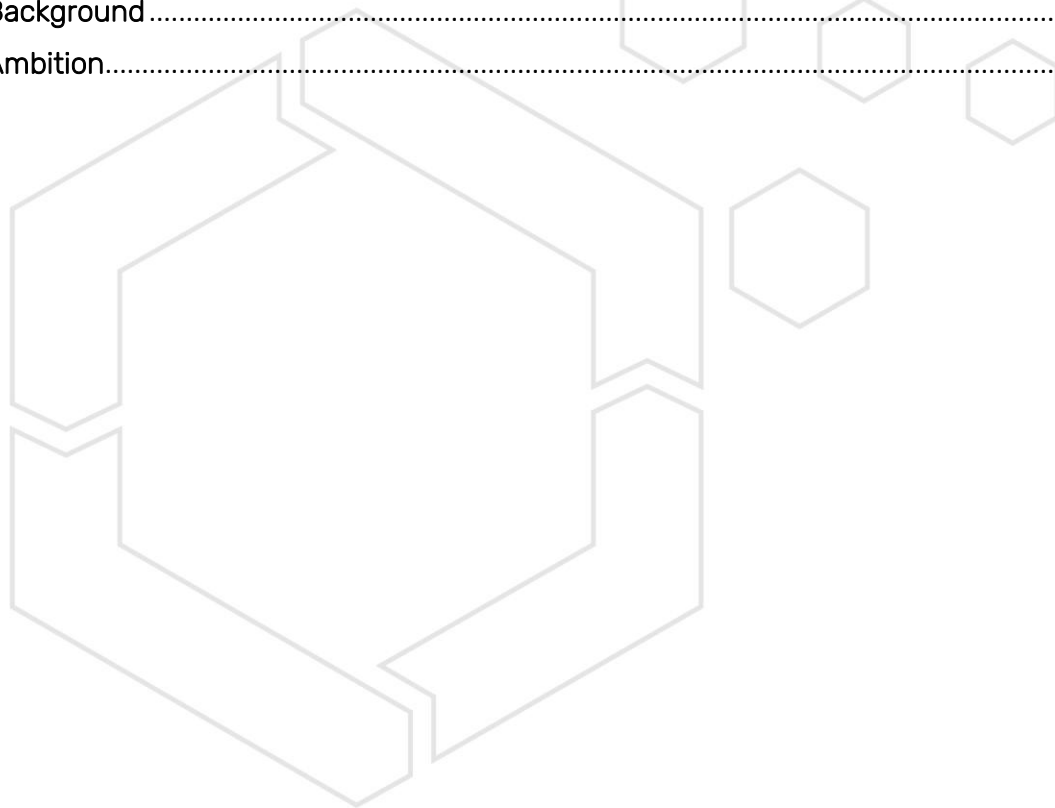
The contest will be open from the 02nd of August 2024, until the 16th of September 2024, 12:00 CET





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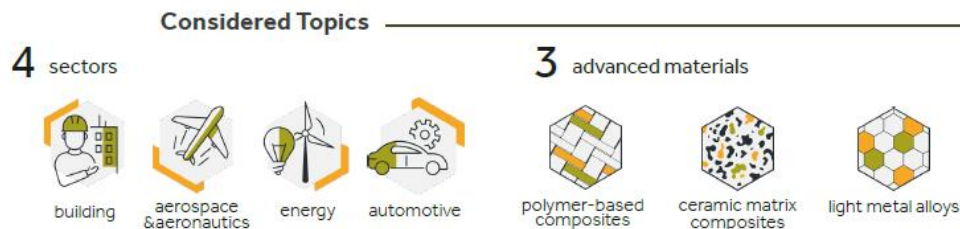


## 1. Basic information about AMULET

The ultimate goal of AMULET is to significantly contribute to the reduction of CO<sub>2</sub> emissions and improve resource efficiency in the EU by boosting the role of SMEs, in which their innovations are expected to be facilitated & supported by clusters.

The AMULET project has 13 partners and is coordinated by 'POLYMERIS' (FR) <https://amuleth2020.eu/partners/>.

The Advanced Materials & Manufacturing United for LightwEighT (AMULET) project is a HORIZON 2020 project that aims to exploit the innovation potential of small and medium-sized enterprises through a cross sectoral and funded knowledge exchange. The goal of AMULET is to create new value chains by fostering the penetration of the three types of advanced lightweight materials in four sectors: automotive, aerospace and aeronautics, energy, and building. AMULET aims to do that through a cross-regional and cross-sectoral knowledge exchange approach.



*Figure 1 Sectors and materials addressed in AMULET*

Three types of activities were implemented to foster innovation in SMEs (Small and Medium-sized Enterprise).

Firstly, innovation projects targeting current sectoral challenges were developed to reach TRL7, following a competitive-based approach. Secondly, SMEs participating in the thematic challenge competitions will receive dedicated technical training support to develop their innovative projects. Thirdly, dedicated business-to-business coaching for accelerating the commercialization of their innovative solutions will be given to SMEs too. Besides supporting SMEs from the thematic challenge competitions, AMULET will also provide continuous support in technical and business topics through educational materials to SMEs interested in lightweight.

These activities will create a unique self-sustainable business framework in which end-users and SMEs from established and new industrial supply chains will explore innovative lightweight-driven market opportunities.

In addition to the budget already distributed through the 3 stages of AMULET demonstration programme, the AMULET consortium decided to award an extra 16 800€ to the SMEs participating in stages 2 and 3 of the two open calls. These 16 800€ have been divided into 3 prizes: 8000€, 5400€ and 3000€.



## 2. Awards - Financial prizes

The funding instrument will include awards for the 3 best innovative projects and solutions developed under the AMULET project.

The amount of the awards will be:

- ❖ 1st prize: 8000€
- ❖ 2nd prize: 5400€
- ❖ 3rd prize: 3400€



Figure 2 - Amulet Awards.

## 3. Eligibility criteria

We will check the eligibility of all applications that will be submitted before the **16th of September 2024, at 12:00 Brussels Time** via email to [contact-amulet@polymeris.fr](mailto:contact-amulet@polymeris.fr). All eligibility criteria are listed below:

1. Be one of the 15 consortia having successfully completed the three stages of the AMULET Support Programme (or being under stage 3 finalisation).
2. The lead beneficiary must apply on behalf of the whole consortium.

The projects that do not comply with those criteria will be excluded and marked as ineligible.

## 4. Submission process

Applications must be submitted via email to [contact-amulet@polymeris.fr](mailto:contact-amulet@polymeris.fr) before the **16th of September 2024, at 12:00 Brussels Time**. Applications submitted by any other means or after the deadline will not be considered for award competition.

Your application form shall answer the 3 following topics and may not exceed 3 pages:

- Follow-up of the solution developed in the AMULET programme
- Impact of the project on the companies of the consortium
- Extra-information on the Award application

A template will be made available to all applicants.

### Application Requirements:

✓ **English Language**

Your proposal must be written in **English** in all mandatory parts in order to be eligible. Only parts written in English will be evaluated.

✓ **Multiple submissions**

You have until 16<sup>th</sup> of September to apply. If several versions of the application have been submitted by the lead beneficiary of a consortium, only the last version will be considered for award.

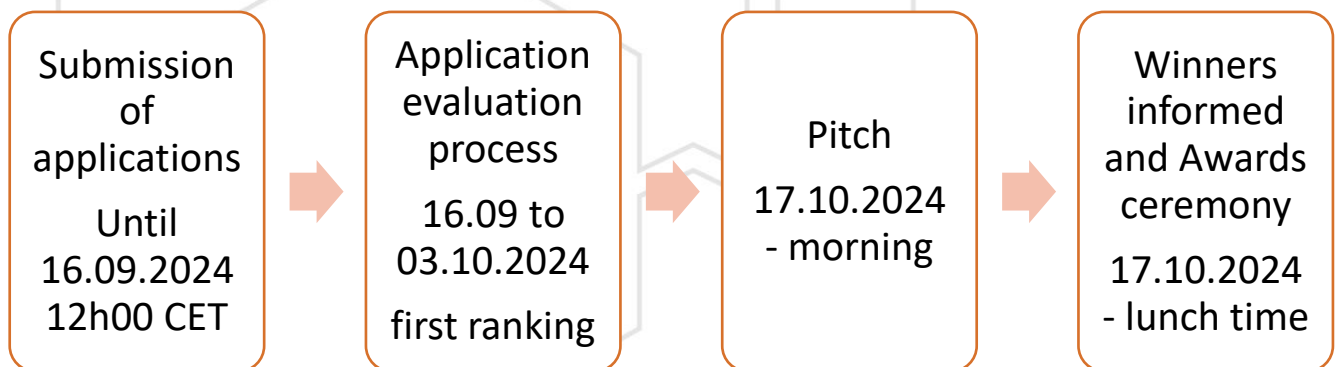
## 5. Evaluation process and criteria

Our evaluation process is transparent, fair, and equal to all our participants. It will be based on your application form (50%) and on the pitch performed (50%) at the AMULET final event taking place during the Kompozyt Expo in Krakow, Poland.

The application form will be evaluated by two partners of the AMULET consortium (different from the tandem leader of the project) and by the members of the AMULET Advisory Board.

The pitch will be evaluated by experts among the ELCA network, participating to the AMULET final event.

The evaluation will be conducted in the following way:



Each application will be evaluated according to the following table of criteria:

Evaluation support	Criteria	Score	Percentage
Application form	Follow-up of the solution developed in the AMULET program	1-5	20%
	Impact of the project on the companies	1-5	20%
	Extra information on Award application	1-5	10%
Pitch	Quality of the pitch: time management, clarity, convincing	1-5	50%

Each criterion will receive a score from 1 to 5, 1 being the lowest and 5 the highest as follows:

1	2	3	4	5
VERY POOR	POOR	SUFFICIENT	GOOD	VERY GOOD



The winners will be announced at the final event, during an Awards Ceremony, that will take place on 17th October 2024 in Krakow.

**The monetary awards delivery is subject to the presence of at least one representative of the consortium applying to the awards at AMULET final event (mandatory requirement).**

## 6. Payment Arrangements

The payments of the awards will be transferred to the coordinator of the micro-consortium who will transfer the payments to the rest of the SME micro-consortium partners.

The prize will be shared by the awarded projects beneficiaries according to their budget breakdown and repartition in their project funded under the AMULET programme.

The coordinator of the micro-consortium is obliged to deliver the confirmation of the transfer to micro-consortium partners to the contractor.

The payment will be transferred to the coordinator of the micro-consortium within 2 weeks after the notification of success.

## 7. Communication

In addition to the promotion of the solution and the project partners during the final event, the micro-consortium will benefit from strong communication and visibility given by AMULET project before, during and after the event, on social media and related communication channels.

In exchange, the awarded AMULET projects will be asked to communicate on their award via social network including notification of AMULET project and H2020 programme.

## 8. Last but not least – Final provisions

- Data management (collection, storage, processing and circulation) – GDPR: AMULET activities strictly complies with the EU laws and regulations, in particular EU Directive 95/46/EC (GDPR). The data collection linked to the awards will be kept confidential, except the cases agreed through informed consents, which will be fully in line with the requirements of the data protection law. The data required of awards' applicants was carefully evaluated and validated in advance to avoid excessive data collection.
- Your IPR will remain your property.
- The AMULET Consortium might cancel the awards at any time, change its provisions or extend it. In this case, we will inform all applicants about such a change.



## Annex 1 - AMULET : background and ambition

### Background

The relevance of lightweight materials and technologies in decarbonisation & resource efficiency for circular economy cuts across different industries, having the most important impacts on the automotive, aerospace & aeronautics, energy, and building sectors. There are three main lightweight materials used in industry: polymer-based composites, light metal alloys, and ceramic matrix composites. However, their degree of penetration in these strategic sectors has been distributed unevenly.

For example, polymer-based composites have been used in aerospace & aeronautics for more than 30 years while in automotive their high costs have hindered a wider application. Their use in energy or building sectors has been limited, resulting in niche markets with few players, in which their potential is not fully exploited. The same can be said for light metal alloys and ceramic matrix composites. The former finds wide use as structural components in aircrafts (e.g. Al and Mg alloys) while the latter has been used in high temperature applications, e.g. aerospace.

AMULET will encourage the development of solutions to challenges that are currently blocking the penetration and market uptake of these three main advanced materials for lightweighting in the four strategic sectors mentioned above. Linking innovations from one sector into another value chain can effectively result in new solutions and opportunities, thereby building new industrial value chains.

In the case of **automotive**, new value chains might result from an increasing penetration rate of lightweight materials in varied auto applications by achieving important breakthroughs on processing technologies and recycling aspects. To develop a competitive edge in the automotive market, the industry needs to focus on the current challenges towards optimising lightweight performance. This includes: cost reduction from various ways e.g. raw material cost, labour cost, energy cost; increase productivity by developing manufacturing technologies with reduced cycle time for complex parts and mass customisation; improve robustness in supply chains for raw materials, design, tooling and manufacturing for composites; enhance simulation and prediction techniques with better software for manufacturing composite parts; improve repair and recycling technologies.

**Aerospace & aeronautics** have been at the front of lightweight innovation for decades. Introducing new advances in both industries will influence their entire supply chains, including manufacturers of aero components which would lead to a better productivity. Aerospace & aeronautics could benefit as well from advances in automotive on mass manufacturing or eco-design principles in energy to ensure recyclability.

Lightweighting in the **energy** sector has been mainly driven by polymer-based composites for wind turbines. However, a variety of raw material products can meet a varied range of energy applications. AMULET aims to identify and prioritize big-volume applications based on synergy, capability, innovation potential, opportunity size, competitive intensity, profit potential, sustainability, and other factors to drive growth. Lightweight cuts across multiple applications to reduce costs and improve competitiveness along different value chains in the renewable energy sector.

In **building**, lightweighting offers advantages in terms of cost, time and energy intensity. The use of lightweight materials in the building sector can potentially reduce the cost of load-bearing structures, as well as those of energy and installation. However, the absence of cost-effective solutions is blocking their widespread use. Other areas of application that could benefit from lightweighting include roofing, building interior and exterior elements, facades, bridges and offshore structures.



## Ambition

AMULET aims to consolidate **novel value chains for multi-sectoral industrial applications** enabled by advanced materials and their related manufacturing technologies as Key Enabling Technologies (KETs), **ultimately contributing to decarbonisation, resource-efficiency through lightweighting** and cost reduction.

In order to consolidate new lightweight industrial value chains in the automotive, aerospace & aeronautics, energy and building sectors, AMULET identifies current sectoral challenges per type of advanced material that are related to, e.g., decarbonisation, circularity, automatisisation, cost-effectiveness (following RIS3 - Research & Innovation Smart Specialisation Strategy).

